
Arthritis

ARTHRITIS

Definition: Respondents who answered yes to the question “have you ever been told by a doctor or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?”

Prevalence of Arthritis

- South Dakota 28.8%
- All participants nationwide 27.1%

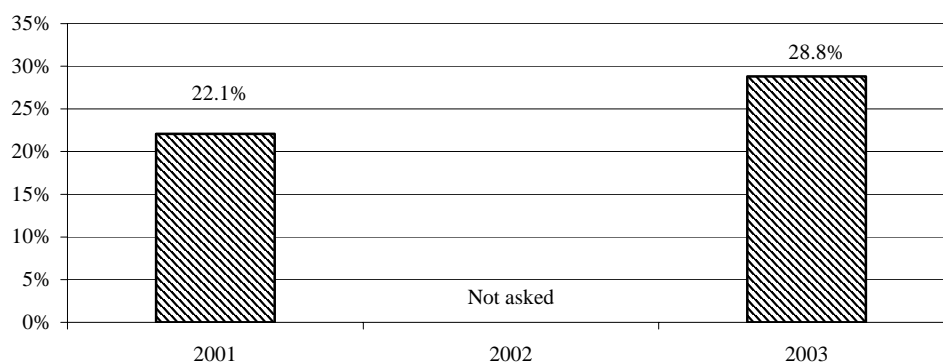
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for having arthritis.

Trend Analysis

This question has only been asked two years, 2001 and 2003. There was an increase in the percent of respondents who have arthritis from 2001 to 2003.

Figure 51
Percent of Respondents Who Were Told They Have Arthritis, 2001 and 2003



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2001 and 2003

Demographics

Gender	There is an appreciably larger percentage of women with arthritis than men. This gender difference is more evident in some demographic groups than others. This includes whites, those in the northeast and southeast, those with a household income less than \$15,000, and among those employed for wages.
Age	The prevalence of arthritis increases as age increases with the most notable increases occurring at the 45-54, 55-64, and 65-74 year old age groups.
Race	There are no substantial racial differences in the prevalence of arthritis.
Region	There are no appreciable differences in the prevalence of arthritis among the five geographic regions.
Household Income	The prevalence of arthritis decreases as household income increases with the most pronounced decrease occurring at the \$75,000 and over income group.

Education As education levels increase the prevalence of arthritis decreases.

Employment Status Those who are unable to work or are retired demonstrate a very high prevalence of arthritis. Also, it is interesting to note that those who are self-employed exhibit a much higher prevalence of arthritis than those who are employed for wages.

Marital Status Those who are widowed demonstrate a very high prevalence of arthritis, while those who have never been married show a very low prevalence.

Table 64 Respondents Who Were Told They Have Arthritis, 2003									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	5,223	28.8	(27.4-30.2)	2,182	24.9	(22.9-26.9)	3,041	32.6	(30.7-34.4)
Age									
18-24	355	6.9	(4.5-10.4)	167	5.7	(2.9-10.9)	188	8.1	(4.7-13.8)
25-34	657	12.4	(9.8-15.7)	271	12.5	(8.5-17.9)	386	12.4	(9.2-16.6)
35-44	978	18.1	(15.5-21.0)	432	16.6	(13.0-21.0)	546	19.6	(16.1-23.5)
45-54	1,020	29.3	(26.3-32.6)	464	25.6	(21.4-30.3)	556	33.2	(29.0-37.8)
55-64	793	43.1	(39.3-46.9)	334	39.3	(33.8-45.2)	459	46.8	(41.8-51.8)
65-74	686	55.6	(51.4-59.8)	271	47.8	(41.3-54.5)	415	62.4	(57.1-67.5)
75+	701	62.1	(58.1-66.0)	233	57.7	(50.7-64.4)	468	64.9	(60.0-69.5)
Race									
White	4,774	28.7	(27.3-30.2)	2,010	25.1	(23.0-27.2)	2,764	32.3	(30.3-34.2)
American Indian	277	27.7	(22.1-33.9)	102	21.0	(13.9-30.3)	175	32.8	(25.3-41.3)
Region									
Southeast	1,285	26.8	(24.2-29.4)	542	22.6	(19.1-26.5)	743	31.0	(27.5-34.7)
Northeast	1,447	30.2	(27.6-32.8)	590	25.3	(21.6-29.4)	857	34.5	(31.2-38.1)
Central	668	30.4	(26.8-34.3)	278	26.7	(21.5-32.5)	390	33.7	(28.9-39.0)
West	1,433	29.5	(27.0-32.2)	616	26.8	(23.1-30.7)	817	32.3	(29.0-35.9)
American Indian Counties	390	29.2	(24.3-34.7)	156	26.8	(19.8-35.2)	234	31.3	(24.8-38.7)
Household Income									
Less than \$15,000	578	42.6	(37.7-47.6)	191	32.8	(25.7-40.6)	387	49.5	(43.3-55.6)
\$15,000-\$19,999	454	40.7	(35.5-46.2)	155	33.4	(25.5-42.4)	299	45.8	(39.1-52.6)
\$20,000-\$24,999	594	32.9	(28.7-37.4)	255	27.9	(22.2-34.6)	339	38.3	(32.6-44.3)
\$25,000-\$34,999	836	28.3	(24.8-32.0)	351	26.9	(21.7-32.8)	485	29.5	(25.1-34.3)
\$35,000-\$49,999	925	25.9	(22.9-29.1)	419	23.6	(19.4-28.4)	506	28.4	(24.2-32.9)
\$50,000-\$74,999	753	24.8	(21.5-28.4)	355	26.4	(21.6-31.8)	398	22.9	(18.8-27.7)
\$75,000+	566	17.4	(14.4-21.0)	315	16.1	(12.3-20.9)	251	19.4	(14.8-25.1)
Education									
Less than High School	551	42.7	(37.8-47.7)	257	36.0	(29.7-42.8)	294	50.3	(43.0-57.6)
High School or G.E.D.	1,757	30.1	(27.8-32.5)	763	26.3	(23.1-29.9)	994	33.9	(30.7-37.2)
Some Post-High School	1,519	28.0	(25.4-30.6)	567	22.9	(19.1-27.1)	952	32.1	(28.9-35.5)
College Graduate	1,384	22.6	(20.2-25.2)	590	20.4	(17.0-24.3)	794	24.8	(21.6-28.3)
Employment Status									
Employed for Wages	2,747	20.4	(18.8-22.2)	1,147	17.7	(15.4-20.3)	1,600	23.2	(21.0-25.5)
Self-employed	657	27.3	(23.6-31.3)	443	25.9	(21.4-30.9)	214	30.9	(24.6-38.1)
Unemployed	110	23.7	(16.2-33.4)	*	*	*	*	*	*
Homemaker	252	28.4	(22.6-35.1)	*	*	*	*	*	*
Retired	1,239	58.0	(54.9-61.0)	452	53.0	(48.0-58.0)	787	61.8	(57.9-65.5)
Unable to Work	121	65.0	(53.9-74.7)	*	*	*	*	*	*
Marital Status									
Married/Unmarried Couple	3,110	28.7	(27.0-30.4)	1,392	27.4	(25.0-30.0)	1,718	29.9	(27.6-32.3)
Divorced/Separated	693	34.3	(30.4-38.4)	274	30.1	(24.4-36.6)	419	37.3	(32.2-42.8)
Widowed	712	60.5	(56.5-64.4)	118	52.3	(42.2-62.2)	594	62.2	(57.8-66.3)
Never Married	706	12.3	(9.7-15.5)	397	11.7	(8.5-16.0)	309	13.3	(9.4-18.5)

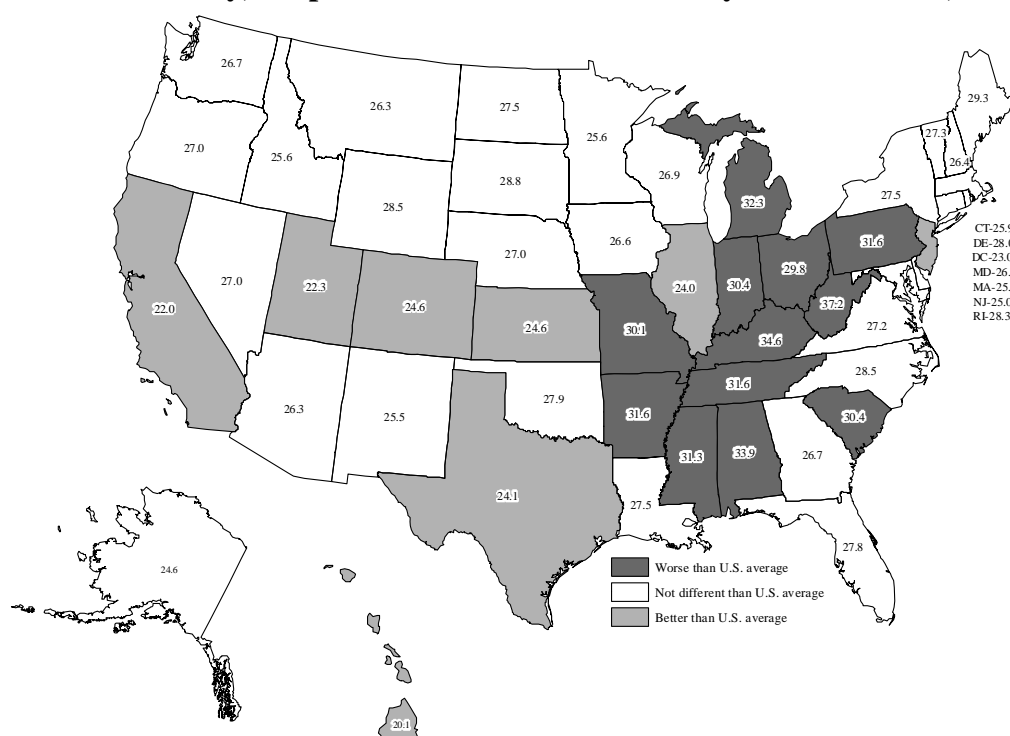
Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

Note: *Results based on sample sizes less than 100 have been suppressed.

National Statistics

The national percent for respondents who have arthritis is 27.1 percent. South Dakota was not significantly different from the United States. Hawaii had the lowest percent of respondents who have arthritis with 20.1 percent, while West Virginia had the highest percent of respondents who have arthritis with 37.2 percent.

Figure 52
Nationally, Respondents Who Were Told They Have Arthritis, 2003



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

Further Analysis

Following are data illustrating the percent of those who have arthritis for various health behaviors and conditions. For example, 31.4 percent of respondents who stated they do not participate in vigorous physical activity have arthritis, while 19 percent of respondents who participate in vigorous physical activity have arthritis.

Table 65
Have Arthritis for Selected Health Behaviors and Conditions, 2003

Health Behavior or Condition	# Respondents	% Arthritis	95% CI
Fair or Poor Health Status	787	58.7	54.5-62.8
Excellent, Very Good, or Good Health Status	4,427	24.3	22.9-25.7
Obese	1,217	37.2	34.2-40.3
Overweight	3,118	32.2	30.4-34.0
Not Overweight	1,903	23.2	21.1-25.5
No Leisure Time Physical Activity	1,268	37.8	34.8-40.9
Leisure Time Physical Activity	3,953	26.3	24.8-27.9
No Moderate Physical Activity	2,835	33.0	31.0-35.0
Moderate Physical Activity	2,249	23.3	21.4-25.3
No Vigorous Physical Activity	4,188	31.4	29.8-33.0
Vigorous Physical Activity	976	19.0	16.4-21.9

Table 65 (continued)
Have Arthritis for Selected Health Behaviors and Conditions, 2003

Health Behavior or Condition	# Respondents	% Arthritis	95% CI
Not Doing Anything to Control Weight	1,413	28.0	25.4-30.7
Trying to Lose or Maintain Weight	3,801	29.1	27.5-30.8
Less Than Five Servings of Fruits and Vegetables	4,167	27.4	25.9-28.9
At Least Five Servings of Fruits and Vegetables	1,056	34.8	31.7-38.2
Current Smoker	1,131	27.3	24.3-30.4
Former Smoker	1,441	35.7	33.0-38.5
Never Smoked	2,645	26.1	24.3-28.0
Smokeless Tobacco Use	289	20.2	15.6-25.8
No Smokeless Tobacco Use	4,871	29.6	28.1-31.0
Drank Alcohol in Past 30 Days	3,001	23.6	22.0-25.3
No Alcohol in Past 30 Days	2,209	36.8	34.5-39.2
Binge Drinker	792	19.2	16.2-22.7
Not a Binge Drinker	4,403	31.1	29.6-32.6
Heavy Drinker	195	18.5	13.2-25.3
Not a Heavy Drinker	4,998	29.3	27.9-30.8
Hypertension	1,547	50.1	47.3-53.0
No Hypertension	3,671	21.8	20.3-23.3
High Blood Cholesterol	1,386	47.3	44.3-50.3
No High Blood Cholesterol	2,694	28.4	26.5-30.3
No Mammogram within Past Two Years (40+)	493	35.9	31.3-40.7
Mammogram within Past Two Years (40+)	1,690	47.4	44.8-50.1
Insufficient Cervical Cancer Screening	318	28.8	23.5-34.7
Sufficient Cervical Cancer Screening	1,909	26.7	24.5-29.0
No Health Insurance (18-64)	366	17.1	13.2-21.9
Health Insurance (18-64)	3,368	22.0	20.4-23.6
Employer Based Health Insurance Coverage (18-64)	2,361	20.5	18.8-22.4
Private Plan (18-64)	511	19.4	16.0-23.5
Medicaid or Medical Assistance (18-64)	118	26.3	17.4-37.6
The Military, CHAMPUS, TriCare, or the VA (18-64)	131	34.9	26.5-44.5
The Indian Health Service (18-64)	142	27.0	19.1-36.7
No Flu Shot (65+)	322	52.6	46.5-58.7
Flu Shot (65+)	1,064	61.0	57.7-64.2
No Pneumonia Shot (65+)	496	54.1	49.2-59.0
Pneumonia Shot (65+)	866	62.5	58.8-66.0
Diabetes	445	55.6	50.3-60.8
No Diabetes	4,777	26.7	25.4-28.2
Current Asthma	367	35.5	29.8-41.6
Former Asthma	143	32.1	23.8-41.8
Never Had Asthma	4,699	28.1	26.7-29.6
Disability - Activities Limited	1,122	59.4	55.6-63.0
No Disability - Activities Limited	4,089	21.6	20.2-23.0
Disability with Special Equipment Needed	371	68.3	61.8-74.1
No Disability with Special Equipment Needed	4,844	26.4	25.0-27.8
Injured in a Fall (45+)	177	61.2	53.0-68.8
Not Injured in a Fall (45+)	3,050	43.4	41.4-45.3
Sunburn in Past 12 Months	1,994	21.1	19.2-23.1
No Sunburn in Past 12 Months	3,209	34.9	33.1-36.8
Military Veteran	861	36.7	33.2-40.4
Not a Military Veteran	4,340	27.2	25.7-28.7

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

LIMITED BECAUSE OF ARTHRITIS

Definition: Respondents who answered yes to the question “are you now limited in any way in any of your usual activities because of arthritis or joint symptoms?”

Prevalence of Limited Because of Arthritis

- South Dakota 13.4%
- There is no nationwide data available for activities limited because of arthritis

Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for being limited from activities because of arthritis.

Trend Analysis

This was the first year this question was asked so no trend analysis could be done.

Demographics

Gender	There is a substantially larger percentage of women with limited activities due to arthritis than men. This gender difference is most evident in whites, those with less than a high school education, and those employed for wages.
Age	Limited activities due to arthritis increases as age increases with the most notable increases occurring at the 35-44, 45-54, and 55-64 year old age groups. These large increases are due more to large increases in the females whose activities are limited due to arthritis rather than males.
Race	There are no substantial racial differences in the prevalence of limited activities due to arthritis.
Region	There are no appreciable differences in the prevalence of limited activities due to arthritis among the five geographic regions.
Household Income	The prevalence of limited activities due to arthritis decreases as household income increases.
Education	As education levels increase the prevalence of limited activities due to arthritis decreases. This includes a significant drop when a high school education is reached. This large drop at the high school level is more evident in females than males.
Employment Status	Those who are unable to work or retired demonstrate a very high prevalence of limited activities due to arthritis. Those who are self-employed exhibit a higher prevalence than those who are employed for wages.
Marital Status	Those who are divorced demonstrate a much higher prevalence of limited activities due to arthritis than those who are married. Once again, this difference is much more evident in females than males.

Table 66
Respondents Who Are Limited Because of Arthritis, 2003

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	5,214	13.4	(12.4-14.5)	2,177	11.1	(9.7-12.6)	3,037	15.7	(14.3-17.1)
Age									
18-24	356	3.5	(1.7-6.9)	167	3.2	(1.0-9.4)	189	3.8	(1.5-9.0)
25-34	654	4.5	(3.1-6.4)	270	3.7	(2.0-6.8)	384	5.3	(3.4-8.2)
35-44	977	8.7	(6.8-11.0)	431	8.0	(5.5-11.6)	546	9.3	(6.9-12.5)
45-54	1,018	13.5	(11.3-16.1)	463	10.6	(7.8-14.3)	555	16.6	(13.3-20.5)
55-64	792	22.1	(19.1-25.4)	334	18.0	(14.0-23.0)	458	26.2	(22.1-30.8)
65-74	686	25.1	(21.7-28.8)	271	21.4	(16.5-27.2)	415	28.3	(23.8-33.3)
75+	698	28.9	(25.3-32.7)	231	27.2	(21.3-34.0)	467	29.9	(25.6-34.5)
Race									
White	4,769	13.4	(12.3-14.4)	2,006	11.3	(9.9-13.0)	2,763	15.3	(13.9-16.8)
American Indian	277	13.7	(10.0-18.4)	102	8.5	(4.9-14.5)	175	17.7	(12.2-24.8)
Region									
Southeast	1,284	13.0	(11.2-15.1)	542	10.3	(7.9-13.3)	742	15.8	(13.2-18.8)
Northeast	1,446	13.1	(11.3-15.0)	590	11.1	(8.5-14.3)	856	14.9	(12.6-17.5)
Central	667	15.7	(13.1-18.8)	275	14.0	(10.2-18.9)	392	17.3	(13.8-21.4)
West	1,428	13.0	(11.2-14.9)	614	10.6	(8.3-13.4)	814	15.4	(12.9-18.1)
American Indian Counties	389	14.8	(11.4-19.0)	156	12.8	(8.3-19.0)	233	16.7	(12.0-22.7)
Household Income									
Less than \$15,000	574	25.7	(21.9-29.8)	188	19.4	(14.3-25.9)	386	29.9	(25.0-35.3)
\$15,000-\$19,999	456	19.2	(15.5-23.6)	155	13.2	(8.7-19.5)	301	23.3	(18.2-29.4)
\$20,000-\$24,999	592	15.7	(12.8-19.2)	254	13.3	(9.4-18.7)	338	18.3	(14.3-23.2)
\$25,000-\$34,999	837	12.5	(10.2-15.2)	352	10.2	(7.1-14.3)	485	14.5	(11.3-18.4)
\$35,000-\$49,999	923	11.2	(9.1-13.7)	418	10.1	(7.3-14.0)	505	12.4	(9.6-15.8)
\$50,000-\$74,999	751	9.7	(7.5-12.4)	354	9.6	(6.7-13.4)	397	9.9	(6.8-14.1)
\$75,000+	566	7.1	(5.2-9.5)	315	6.4	(4.2-9.6)	251	8.2	(5.3-12.4)
Education									
Less than High School	547	21.5	(18.0-25.5)	255	15.8	(11.8-20.7)	292	28.2	(22.4-34.7)
High School or G.E.D.	1,756	14.8	(13.0-16.7)	761	12.4	(9.9-15.3)	995	17.3	(14.9-19.9)
Some Post-High School	1,519	12.6	(10.8-14.6)	568	10.2	(7.7-13.3)	951	14.5	(12.2-17.3)
College Graduate	1,380	9.4	(8.0-11.1)	588	8.4	(6.4-11.0)	792	10.4	(8.5-12.8)
Employment Status									
Employed for Wages	2,747	7.8	(6.7-9.0)	1,148	6.1	(4.7-7.8)	1,599	9.5	(8.0-11.2)
Self-employed	654	14.1	(11.3-17.6)	441	13.5	(10.0-17.9)	213	15.9	(11.4-21.7)
Unemployed	109	12.0	(7.4-18.9)	*	*	*	*	*	*
Homemaker	252	19.3	(14.3-25.6)	*	*	*	*	*	*
Retired	1,236	26.4	(23.8-29.2)	450	23.9	(19.9-28.5)	786	28.3	(25.0-31.8)
Unable to Work	118	64.1	(52.9-73.9)	*	*	*	*	*	*
Marital Status									
Married/Unmarried Couple	3,107	12.9	(11.7-14.2)	1,390	11.9	(10.2-13.8)	1,717	13.9	(12.3-15.8)
Divorced/Separated	691	17.9	(15.0-21.3)	274	14.1	(10.1-19.4)	417	20.7	(16.7-25.3)
Widowed	710	29.0	(25.5-32.8)	117	27.1	(19.2-36.8)	593	29.4	(25.6-33.5)
Never Married	704	6.1	(4.3-8.7)	395	5.5	(3.3-9.2)	309	7.1	(4.3-11.4)

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003

Note: *Results based on sample sizes less than 100 have been suppressed.

Further Analysis

Following are data illustrating the percent of those who are limited because of arthritis for various health behaviors and conditions. For example, 20.7 percent of respondents who stated they are obese are limited because of arthritis, while 10.2 percent of respondents who stated they are not overweight are limited because of arthritis.

Table 67
Respondents Who Are Limited Because of Arthritis for Selected Health Behaviors and Conditions, 2003

Health Behavior or Condition	# Respondents	% Limited Because of Arthritis	95% CI
Fair or Poor Health Status	785	40.9	37.0-45.0
Excellent, Very Good, or Good Health Status	4,420	9.3	8.4-10.3
Obese	1,218	20.7	18.3-23.2
Overweight	3,118	15.4	14.1-16.8
Not Overweight	1,893	10.2	8.7-11.9
No Leisure Time Physical Activity	1,265	21.2	18.8-23.7
Leisure Time Physical Activity	3,947	11.3	10.2-12.4
No Moderate Physical Activity	2,835	15.8	14.4-17.3
Moderate Physical Activity	2,248	10.2	8.9-11.6
No Vigorous Physical Activity	4,182	15.0	13.9-16.2
Vigorous Physical Activity	977	7.4	5.7-9.5
Not Doing Anything to Control Weight	1,410	13.5	11.6-15.6
Trying to Lose or Maintain Weight	3,795	13.4	12.2-14.6
Less Than Five Servings of Fruits and Vegetables	4,160	12.6	11.6-13.7
At Least Five Servings of Fruits and Vegetables	1,054	16.8	14.4-19.5
Current Smoker	1,131	13.6	11.4-16.2
Former Smoker	1,435	16.8	14.8-19.0
Never Smoked	2,642	11.7	10.4-13.0
Smokeless Tobacco Use	286	11.7	8.2-16.6
No Smokeless Tobacco Use	4,866	13.7	12.7-14.8
Drank Alcohol in Past 30 Days	3,000	10.5	9.4-11.8
No Alcohol in Past 30 Days	2,202	17.9	16.2-19.7
Binge Drinker	792	8.8	6.8-11.5
Not a Binge Drinker	4,395	14.5	13.4-15.6
Heavy Drinker	195	14.2	8.9-21.7
Not a Heavy Drinker	4,990	13.3	12.4-14.4
Hypertension	1,543	25.0	22.7-27.5
No Hypertension	3,666	9.6	8.6-10.7
High Blood Cholesterol	1,386	22.9	20.6-25.5
No High Blood Cholesterol	2,691	12.7	11.4-14.1
No Mammogram within Past Two Years (40+)	494	18.0	14.6-22.0
Mammogram within Past Two Years (40+)	1,688	23.1	20.9-25.4
Insufficient Cervical Cancer Screening	318	14.2	10.6-18.8
Sufficient Cervical Cancer Screening	1,906	12.0	10.5-13.8
No Health Insurance (18-64)	363	7.4	4.9-10.9
Health Insurance (18-64)	3,365	10.3	9.3-11.5
Employer Based Health Insurance Coverage (18-64)	2,363	8.3	7.2-9.7
Private Plan (18-64)	511	11.3	8.6-14.8
Medicaid or Medical Assistance (18-64)	116	21.0	14.0-30.4
The Military, CHAMPUS, TriCare, or the VA (18-64)	130	12.1	7.4-19.1
The Indian Health Service (18-64)	142	15.6	9.6-24.4
No Flu Shot (65+)	321	20.8	16.4-26.0
Flu Shot (65+)	1,062	28.9	26.0-32.0
No Pneumonia Shot (65+)	496	24.6	20.6-29.1
Pneumonia Shot (65+)	864	28.6	25.4-32.0
Diabetes	446	28.5	23.9-33.5
No Diabetes	4,767	12.3	11.3-13.3
Current Asthma	367	23.5	18.8-28.9
Former Asthma	140	12.5	7.9-19.3
Never Had Asthma	4,693	12.6	11.6-13.6

Table 67 (continued)
Respondents Who Are Limited Because of Arthritis for Selected Health Behaviors and Conditions, 2003

Health Behavior or Condition	# Respondents	% Limited Because of Arthritis	95% CI
Disability - Activities Limited	1,119	50.9	47.3-54.6
No Disability - Activities Limited	4,084	4.7	4.0-5.4
Disability with Special Equipment Needed	369	57.3	51.2-63.1
No Disability with Special Equipment Needed	4,838	10.8	9.9-11.7
Injured in a Fall (45+)	177	42.7	35.0-50.9
Not Injured in a Fall (45+)	3,045	19.7	18.2-21.3
Sunburn in Past 12 Months	1,992	10.2	8.9-11.7
No Sunburn in Past 12 Months	3,203	16.0	14.6-17.5
Military Veteran	859	15.8	13.3-18.6
Not a Military Veteran	4,335	12.9	11.9-14.1

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003